

=> d l10 ide

L10 ANSWER 1 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 253330-17-5 REGISTRY  
CN DNA, d(P-thio)(G-T-T-A-G-G-G-T-T) (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 2

L10 ANSWER 2 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 253330-16-4 REGISTRY  
CN DNA, d(P-thio)(T-T-A-G-G-G-T-T-A-G-G) (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 3

L10 ANSWER 3 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 253330-15-3 REGISTRY  
CN DNA, d(P-thio)(T-T-A-G-G-G-T-T-A-G) (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

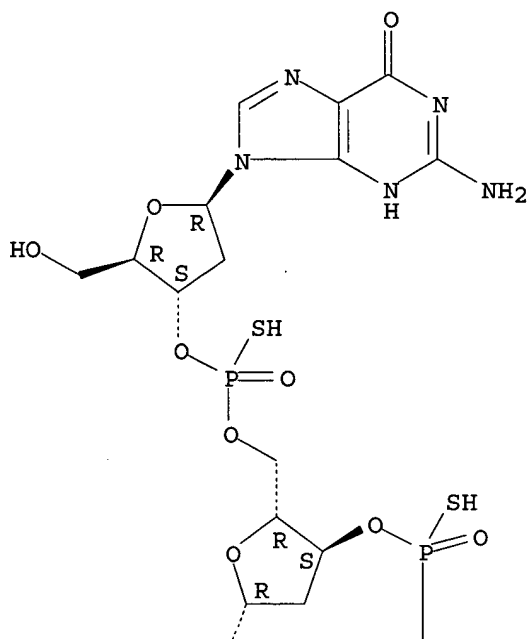
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L10 ANSWER 4 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN

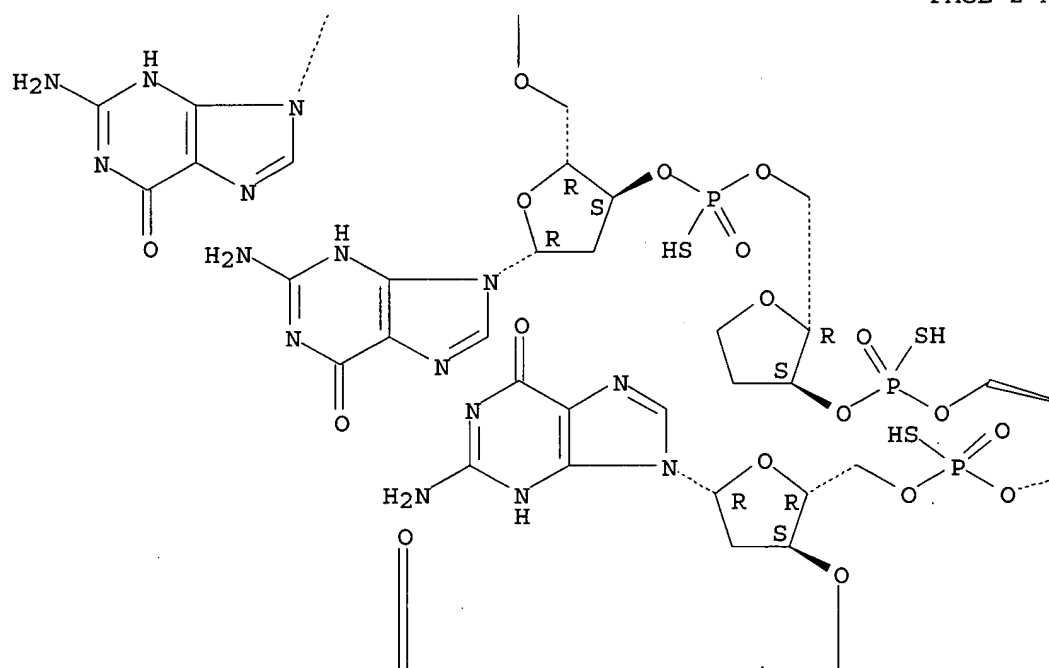
RN 253305-13-4 REGISTRY  
CN Guanosine, 2'-deoxy-P-thioguananylyl-(3'→5')-2'-deoxy-P-thioguananylyl-  
(3'→5')-2'-deoxy-P-thioguananylyl-(3'→5')-1'-de(6-amino-9H-  
purin-9-yl)-2'-deoxy-P-thioadenylyl-(3'→5')-2'-deoxy-P-thioguananylyl-  
(3'→5')-2'-deoxy-P-thioguananylyl-(3'→5')-2'-deoxy- (9CI) (CA  
INDEX NAME)  
FS STEREOSEARCH  
MF C65 H82 N30 O33 P6 S6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

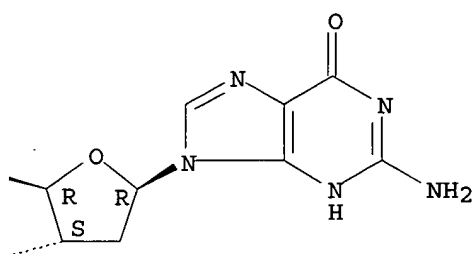
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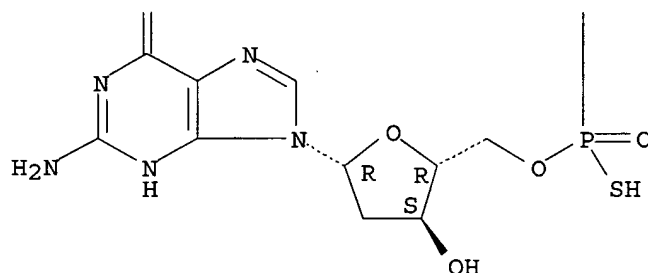
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

26.90

60.53

FILE 'STNGUIDE' ENTERED AT 12:40:08 ON 05 MAY 2004

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE

AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Apr 30, 2004 (20040430/UP).

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.24

60.77

FILE 'REGISTRY' ENTERED AT 12:42:49 ON 05 MAY 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 MAY 2004 HIGHEST RN 679784-15-7

DICTIONARY FILE UPDATES: 4 MAY 2004 HIGHEST RN 679784-15-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d 110 ide 5

L10 ANSWER 5 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN

RN 253305-12-3 REGISTRY

CN Thymidine, P-thiothymidylyl-(3'→5')-P-thiothymidylyl-(3'→5')-  
2'-deoxy-P-thioadenylyl-(3'→5')-2'-deoxy-P-thioguanlylyl-  
(3'→5')-2'-deoxy-P-thioguanlylyl-(3'→5')-2'-deoxy-P-  
thioguanlylyl-(3'→5')-P-thiothymidylyl-(3'→5')- (9CI) (CA  
INDEX NAME)

OTHER NAMES:

CN ISIS 5756

FS STEREOSEARCH

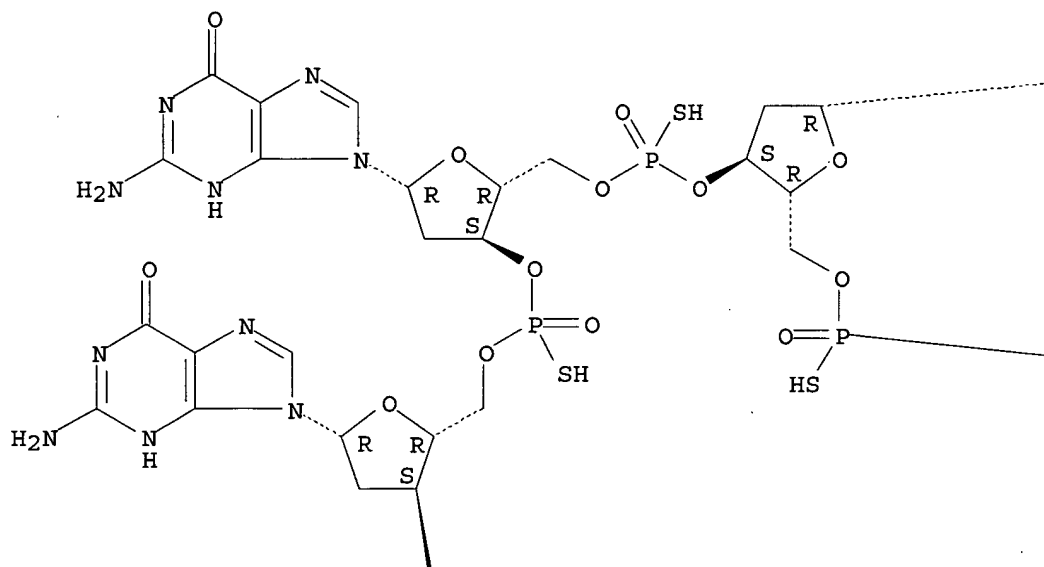
MF C80 H101 N28 O42 P7 S7

SR CA

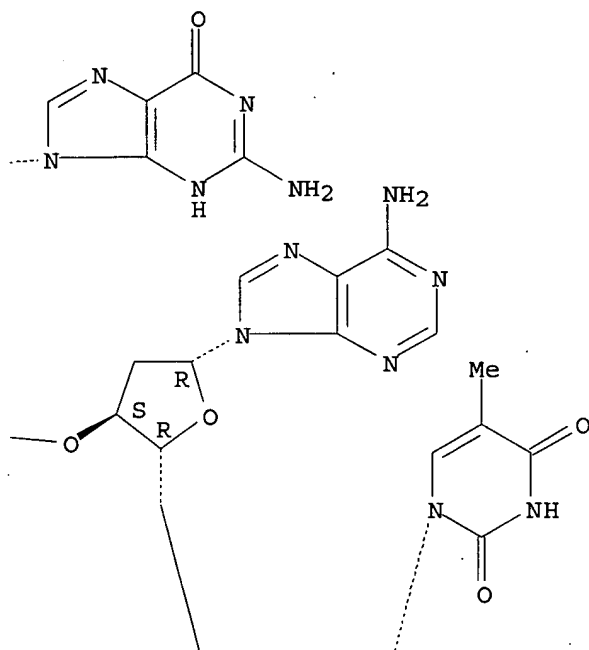
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

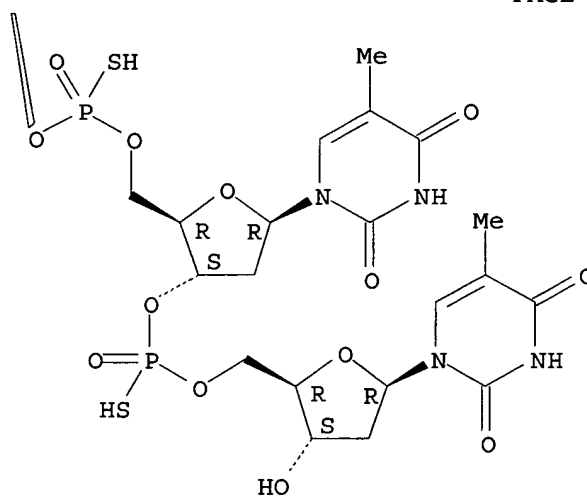
PAGE 1-A



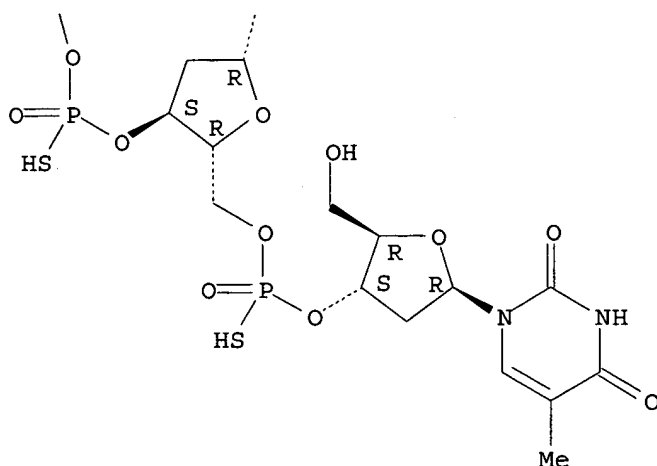
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

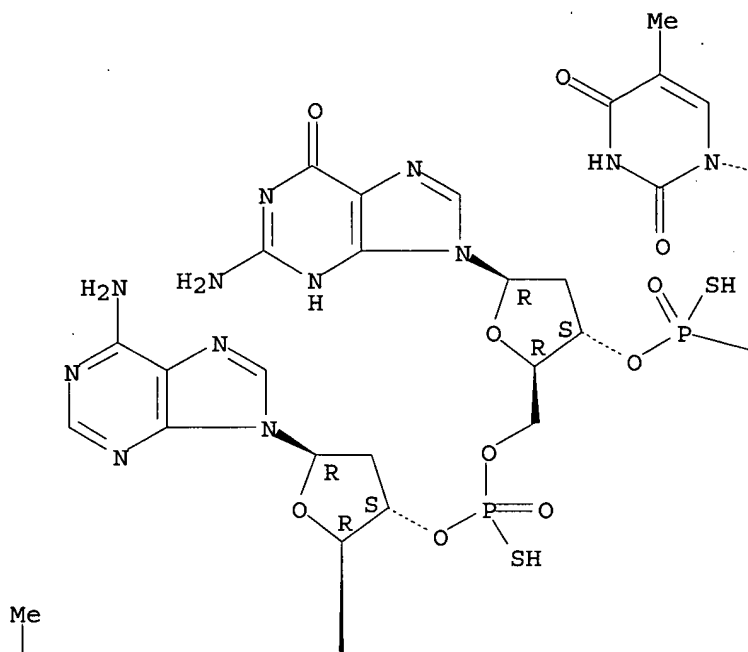
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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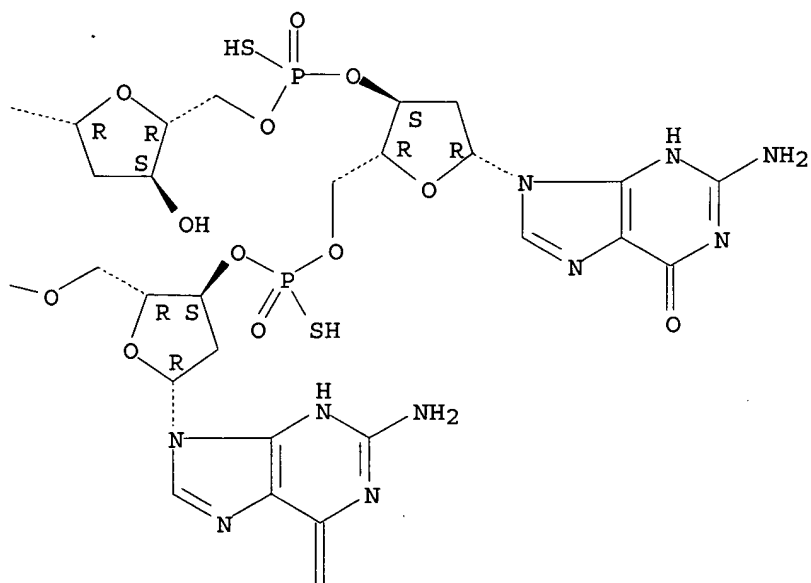
L10 ANSWER 6 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 253305-11-2 REGISTRY  
CN Thymidine, P-thiothymidylyl-(3'→5')-P-thiothymidylyl-(3'→5')-  
2'-deoxy-P-thioadenylyl-(3'→5')-2'-deoxy-P-thioguanilyl-  
(3'→5')-2'-deoxy-P-thioguanilyl-(3'→5')-2'-deoxy-P-  
thioguanilyl-(3'→5')- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C70 H88 N26 O36 P6 S6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

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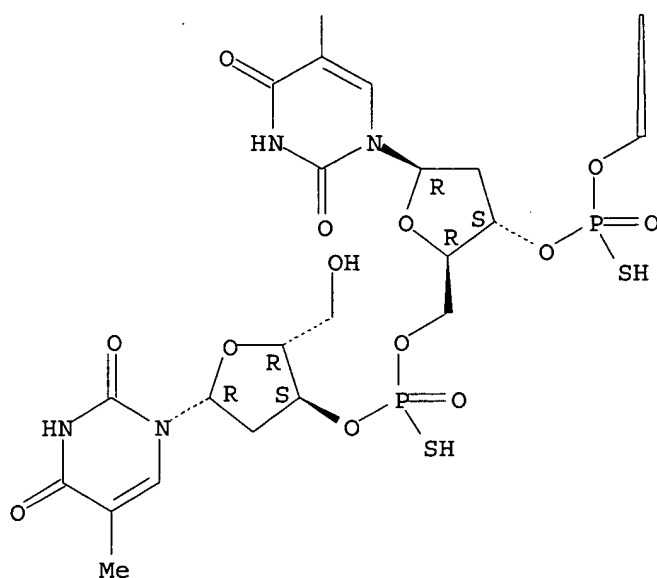


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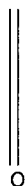




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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

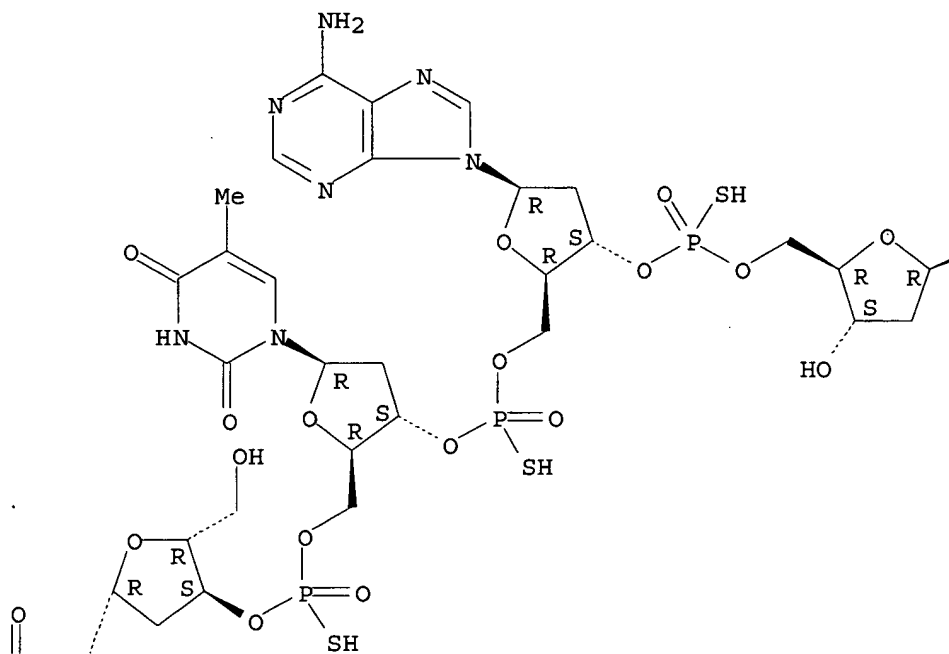
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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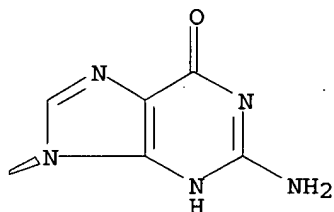
L10 ANSWER 7 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 253305-10-1 REGISTRY  
CN Guanosine, P-thiothymidylyl-(3'→5')-P-thiothymidylyl-(3'→5')-  
2'-deoxy-P-thioadenylyl-(3'→5')-2'-deoxy- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C40 H51 N14 O20 P3 S3  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

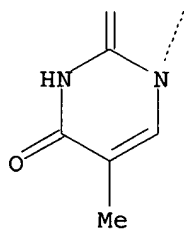
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 8

L10 ANSWER 8 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 220242-69-3 REGISTRY  
CN DNA, d(P-thio)(G-G-T-T-A-G-G-G-T) (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*  
2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 9

L10 ANSWER 9 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 220242-68-2 REGISTRY  
CN DNA, d(P-thio)(G-G-G-T-T-A-G-G-G) (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*  
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*  
3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 10

L10 ANSWER 10 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 220242-67-1 REGISTRY  
CN DNA, d(P-thio)(A-G-G-G-T-T-A-G-G) (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*  
2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 11

L10 ANSWER 11 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 220242-66-0 REGISTRY  
CN DNA, d(P-thio)(T-A-G-G-G-T-T-A-G) (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*  
2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 12

L10 ANSWER 12 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 220242-65-9 REGISTRY  
CN DNA, d(P-thio)(T-T-A-G-G-G-T-T-A) (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*  
3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

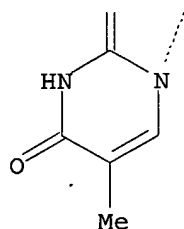
=> d l10 ide 13

L10 ANSWER 13 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 190721-91-6 REGISTRY  
CN Guanosine, P-thiothymidylyl-(3'→5')-P-thiothymidylyl-(3'→5')-  
2'-deoxy-P-thioadenylyl-(3'→5')-2'-deoxy-P-thioguanilyl-  
(3'→5')-2'-deoxy- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C50 H63 N19 O25 P4 S4  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

The diagram illustrates a chemical structure of a nucleoside diphosphate derivative. At the center is a phosphate group, represented by a phosphorus atom (P) double-bonded to an oxygen (O) and single-bonded to a hydroxyl group (SH) and two other oxygen atoms. One of these oxygen atoms is part of a methoxy group (O-CH<sub>3</sub>), and the other is linked to a ribose sugar ring. This ribose sugar is further linked to another ribose sugar ring, which is in turn connected to a 2-aminopyrimidin-4(1H)-one base. The base is a six-membered ring with nitrogen atoms at positions 1 and 3, a carbonyl group at position 4, and an amino group (NH<sub>2</sub>) at position 2. The connection between the ribose sugar and the base is shown as a dashed line, indicating a variable or unspecified linkage. The entire structure is drawn in a perspective view, with the ribose rings and the base shown in a slightly rotated orientation.

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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 14

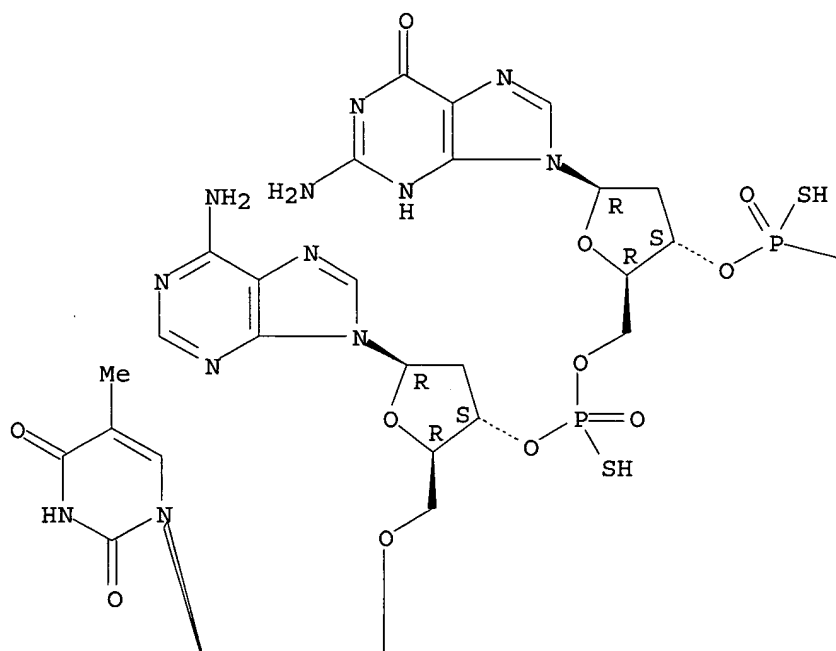
L10 ANSWER 14 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 178943-39-0 REGISTRY  
CN Guanosine, P-thiothymidylyl-(3'→5')-P-thiothymidylyl-(3'→5')-  
2'-deoxy-P-thioadenylyl-(3'→5')-2'-deoxy-P-thioguanlylyl-  
(3'→5')-2'-deoxy-P-thioguanlylyl-(3'→5')-2'-deoxy- (9CI) (CA  
INDEX NAME)

OTHER NAMES:

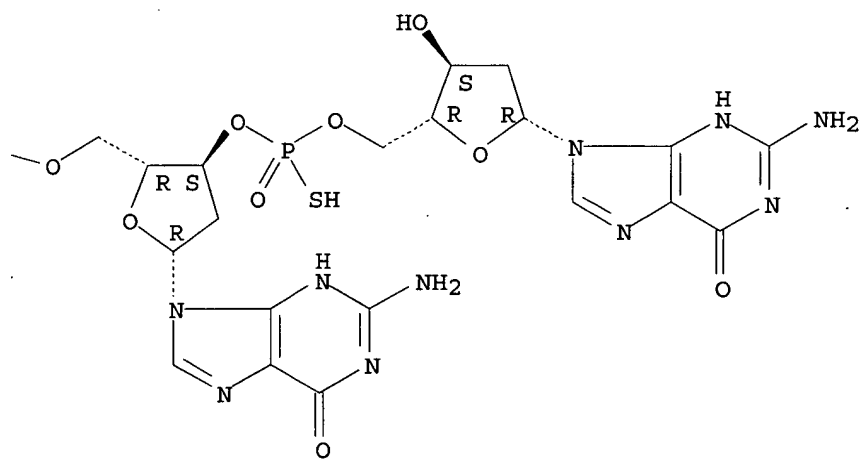
CN 3: PN: US6245747 SEQID: 3 claimed sequence  
CN 90: PN: WO0144465 PAGE: 19 claimed sequence  
FS STEREOSEARCH  
DR 357408-06-1  
MF C60 H75 N24 O30 P5 S5  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

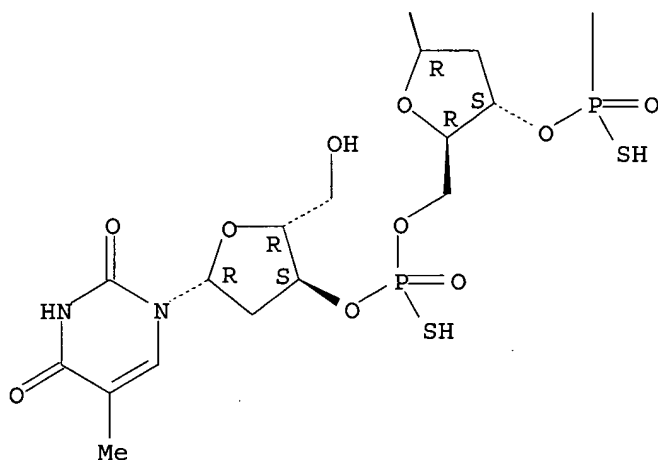
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

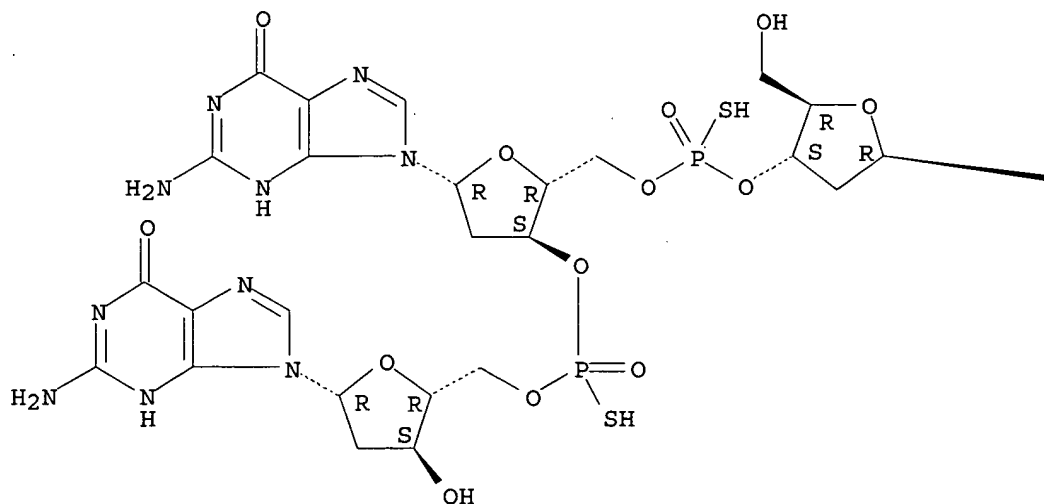
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 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 15

L10 ANSWER 15 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 158703-48-1 REGISTRY  
 CN Guanosine, 2'-deoxy-P-thioguanlyl-(3'→5')-2'-deoxy-P-thioguanlyl-  
 (3'→5')-2'-deoxy- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C30 H37 N15 O14 P2 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

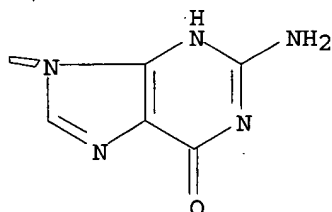
Absolute stereochemistry.

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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 16

L10 ANSWER 16 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN

RN 158614-75-6 REGISTRY

CN Guanosine, 2'-deoxy-P-thioguananylyl-(3'→5')-2'-deoxy-P-thioguananylyl-  
(3'→5')-2'-deoxy-P-thioguananylyl-(3'→5')-2'-deoxy- (9CI) (CA  
INDEX NAME)

OTHER NAMES:

CN IP 4803

CN ISIS 4803

CN ISIS 5673

FS STEREOSEARCH

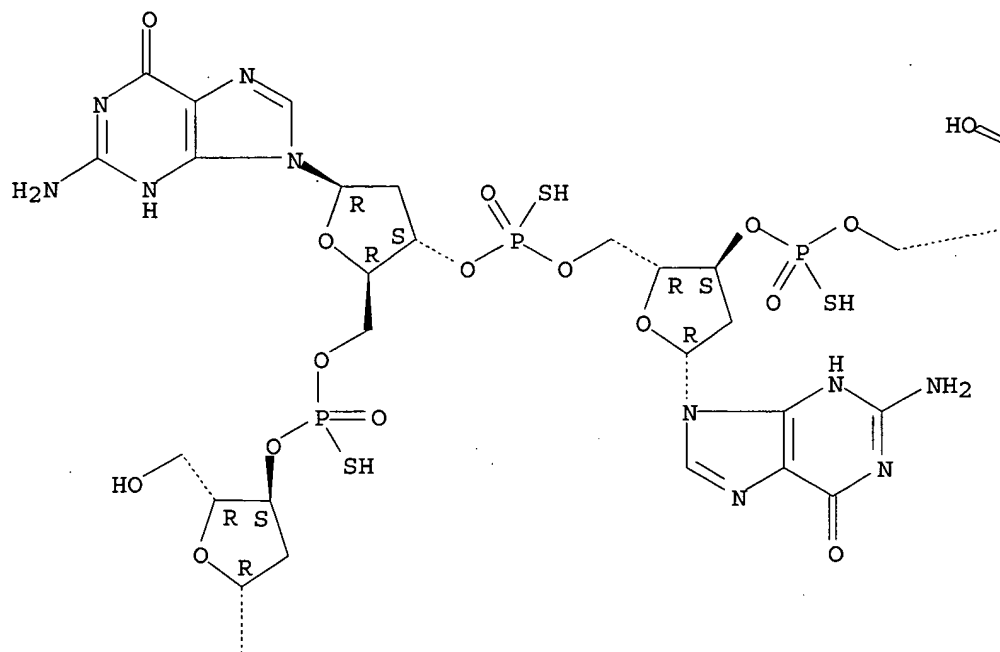
MF C40 H49 N20 O19 P3 S3

SR CA

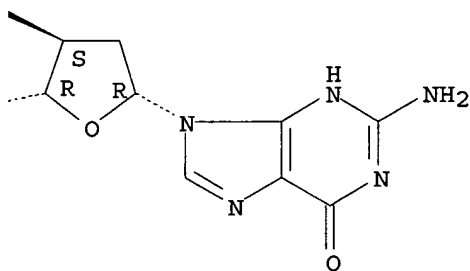
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

Absolute stereochemistry.

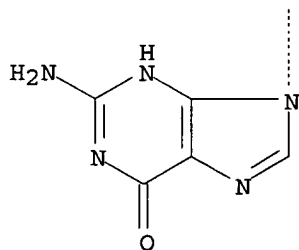
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

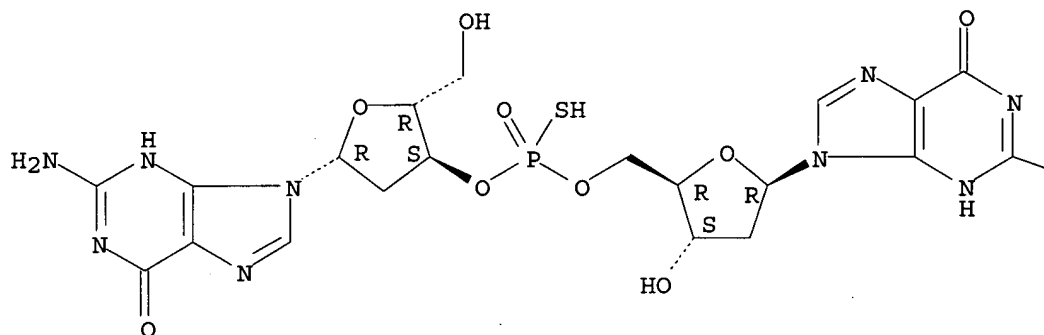
11 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 17

L10 ANSWER 17 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 155487-46-0 REGISTRY  
CN Guanosine, 2'-deoxy-P-thioguananylyl-(3'->5')-2'-deoxy- (9CI) (CA  
INDEX NAME)  
FS STEREOSEARCH  
MF C20 H25 N10 O9 P S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

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NH<sub>2</sub>

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide-18

L10 ANSWER 18 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 120178-12-3 REGISTRY

*Telomerase*

CN Nucleotidyltransferase, terminal deoxyribo- (telomeric DNA) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN DNA telomerase  
CN Telomerase  
CN Telomerase reverse transcriptase  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CBNB, CEN, CIN, EMBASE, IPA, PROMT, TOXCENTER, USPAT2, USPATFULL

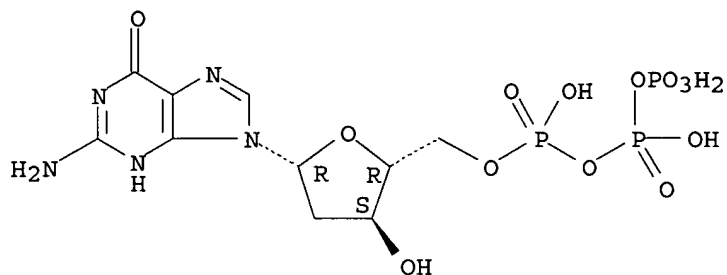
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12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
4041 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l10 ide 19

L10 ANSWER 19 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN  
RN ~~2564-35-4~~ REGISTRY  
CN Guanosine 5'-(tetrahydrogen triphosphate), 2'-deoxy- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Guanosine, 2'-deoxy-, 5'-(tetrahydrogen triphosphate) (8CI)  
CN Guanosine, 2'-deoxy-, 5'-triphosphate (6CI, 7CI)  
OTHER NAMES:  
CN 2'-Deoxy-5'-GTP  
CN 2'-Deoxyguanosine 5'-triphosphate  
CN 5'-DGTP  
CN Deoxy-GTP  
CN Deoxyguanosine 5'-triphosphate  
CN Deoxyguanosine triphosphate  
CN dGTP  
FS STEREOSEARCH  
DR 2922-27-2  
MF C10 H16 N5 O13 P3  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHM, DDFU, DRUGU, EMBASE, IFICDB, IFIUDB, MEDLINE, MSDS-OHS, PROMT, RTECS\*, TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1408 REFERENCES IN FILE CA (1907 TO DATE)  
47 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1413 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
31 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>